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TITLE: Rotary engine for improving efficiency of the engine by sucking air sufficiently with an auxiliary suction unit

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PATENT-FAMILY:

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ABSTRACTED-PUB-NO: KR2005017425A

BASIC-ABSTRACT:

NOVELTY - A rotary engine is provided to ignite stably without fluctuation of pressure of gas by mounting an ignition unit in the middle of an inner wall of a combustion chamber, and to improve output of the engine by fixing the piston to the rotating body with the fixing rod.

DETAILED DESCRIPTION - A suction chamber and an exhaust chamber(34) are formed in a housing(2), and plural operating chambers(8) are formed in a rotating body(8) turning with a rotating shaft(4). A guide roller of an induction rod integrally formed with a shaft rod of a piston(12) is moved along a guide groove, and a tail roller of the piston is rotated and contacted to the guide bar for suction or compression stroke. An opening valve(20) and an opening plate are opened after explosion, and thrust is applied to the rotating body. The guide rod of the opening plate is moved along the guide groove, and the piston is fixed by the fixing rod of the rotating body to prevent compression friction of the tail roller with the guide bar. The opening valve is opened in moving the roller of the opening valve along the guide groove to charge air in the operating chamber, and ignition explosion is performed by injecting fuel with an injection nozzle(100b) after compression. Electric ignition is

performed after compression by injecting fuel to air flow with an injection valve of an injection pump.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: ROTATING ENGINE IMPROVE EFFICIENCY ENGINE SUCK AIR
SUFFICIENT

AUXILIARY SUCTION UNIT

DERWENT-CLASS: Q52

